

Serial No. 09/502.176

Title: Deglycosylated Kringle 1-3 Region Fragments of Plasminogen and Methods of Use
Amendment and Response to Office Action

Filed: February 10, 2000

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AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A composition comprising a pharmaceutically acceptable carrier and a protein consisting of a deglycosylated kringle 1-3 region fragment of a plasminogen protein, wherein the deglycosylated kringle 1-3 region fragment lacks one or ~~more~~ two carbohydrate moieties found in ~~moieties linked to~~ naturally glycosylated forms of the fragment, wherein the deglycosylated kringle 1-3 region fragment has antiangiogenic activity, and wherein the deglycosylated kringle 1-3 region fragment and a glycosylated form of the fragment are at a ratio of 100:0.

2. (Previously Presented) The composition of claim 1, wherein the deglycosylated kringle 1-3 region fragment lacks a bisialylated-biantennary glycan.

3. (Previously Presented) The composition of claim 1, wherein the deglycosylated kringle 1-3 region fragment lacks an N-linked carbohydrate moiety.

4. (Previously Presented) The composition of claim 1, wherein the deglycosylated kringle 1-3 region fragment lacks a carbohydrate chain at an amino acid position corresponding to an N-glycosylation site of human plasminogen.

5. (Cancelled)

6. (Previously Presented) The composition of claim 1, wherein the deglycosylated kringle 1-3 region fragment begins at approximately amino acid 87 of human plasminogen.

7. (Previously Presented) The composition of claim 1, wherein the deglycosylated kringle 1-3 region fragment amino acid sequence is shown in SEQ ID NO:2.

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8. (Previously Presented) The composition of claim 1, wherein the deglycosylated kringle 1-3 region fragment is produced recombinantly.

9. (Previously Presented) The composition of claim 1, wherein the deglycosylated kringle 1-3 region fragment has an amino acid substitution at amino acid position corresponding to the N-glycosylation site of human plasminogen.

10-14. (Cancelled)

15. (Previously Presented) The composition of claim 1, wherein the deglycosylated kringle 1-3 region fragment has antiangiogenic activity *in vitro*.

16. (Previously Presented) The composition of claim 1, wherein the deglycosylated kringle 1-3 region fragment has antiangiogenic activity *in vivo*.

17-26 (Cancelled)

27. (Previously Presented) A deglycosylated kringle 1-3 region fragment of a plasminogen protein, wherein the deglycosylated kringle 1-3 region fragment amino acid sequence is shown in SEQ ID NO:2.

28. (Cancelled)

29. (Previously Presented) The composition of claim 40, wherein the amount of the naturally glycosylated kringle 1-3 region fragment present in the composition is smaller than the amount of the deglycosylated kringle 1-3 region fragment present in the composition.

30-34. (Cancelled)

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35. (Previously Presented) The composition of claim 39, wherein the deglycosylated kringle 1-3 region fragment is produced recombinantly.

36. (Cancelled)

37. (Previously Presented) The composition of claim 39, wherein the deglycosylated kringle 1-3 region fragment has antiangiogenic activity *in vitro*.

38. (Previously Presented) The composition of claim 39, wherein the deglycosylated kringle 1-3 region fragment has antiangiogenic activity *in vivo*.

39. (Previously Presented) A composition comprising a pharmaceutically acceptable carrier and a protein consisting of a deglycosylated kringle 1-3 region fragment of a plasminogen protein wherein the deglycosylated kringle 1-3 region fragment lacks one or more carbohydrate moieties linked to naturally glycosylated forms of the fragment, wherein the deglycosylated kringle 1-3 region fragment has antiangiogenic activity, and wherein the deglycosylated kringle 1-3 region fragment amino acid sequence is shown in SEQ ID NO:2.

40. (Previously Presented) The composition of claim 39, further comprising a protein consisting of a naturally glycosylated kringle 1-3 region fragment of a plasminogen protein.

41. (Currently Amended) The deglycosylated kringle 1-3 region fragment composition of claim 27, wherein the deglycosylated kringle 1-3 region fragment is produced recombinantly.

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42. (Currently Amended) The deglycosylated kringle 1-3 region fragment ~~composition~~ of claim 27, wherein the deglycosylated kringle 1-3 region fragment has antiangiogenic activity *in vitro*.

43. (Currently Amended) The deglycosylated kringle 1-3 region fragment ~~composition~~ of claim 27, wherein the deglycosylated kringle 1-3 region fragment has antiangiogenic activity *in vivo*.